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VERIFICATION OF A TRANSLATION

I, Susan ANTHONY BA, ACIS,

Director of RWS Group Ltd, of Europa House, Marsham Way, Gerrards Cross, Buckinghamshire, England declare:

That the translator responsible for the attached translation is knowledgeable in the French language in which the below identified international application was filed, and that, to the best of RWS Group Ltd knowledge and belief, the English translation of the amended sheets of the international application No. PCT/FR03/00022 is a true and complete translation of the amended sheets of the above identified international application as filed.

I hereby declare that all the statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the patent application issued thereon.

Date: June 15, 2004

Signature :

For and on behalf of RWS Group Ltd

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England.

CLAIMS

1. A method for monitoring the operation of a packet transmission communication network (1) comprising interconnected routers (2) each including a routing unit (2a) and a control unit (2b) supervising the routing unit, the routing unit being arranged for transferring first packets between external ports of said router and for transferring second packets between the external ports of the router and an internal port connected to the control unit, the method comprising the following steps, parallel to the transfer of first and second packets by the routing unit:

- selecting packets corresponding to at least some of the second packets transferred at said internal port of a router (2) by means of a determined collection filter; and
- recording a content of the selected packets on a recording medium.

2. The method as claimed in claim 1, wherein a recording unit (31) is connected to the communication network (1), remote from said router (2), and said content of the selected packets is sent to said recording unit.

3. The method as claimed in claim 2, also comprising a formatting of said content of the selected packets prior to the sending of this content to the recording unit (31) via the communication network (1), the formatting comprising the assignment to the content of address data corresponding to the recording unit (31).

4. The method as claimed in claim 3, wherein the content of the selected packets is encrypted prior to the sending of this content to the recording unit (31) via the communication network (1).

5. The method as claimed in any one of the preceding claims, wherein a collection module (30) is arranged inside the router (2), said collection module being connected to said internal port for selecting the second packets and extracting the content to be recorded.

6. The method as claimed in claim 5, wherein the collection module (30) is remotely programmable by means of program codes sent to the collection module via the communication network (1).

7. The method as claimed in any one of claims 1 to 4, wherein a collection module (27) external to the routers is connected to the communication network (1), for selecting the packets corresponding to second packets transferred at said internal port of the router and for extracting the content to be recorded, and wherein the content of each selected packet is copied to a duplicate packet which is sent to a data processing unit (21).

8. The method as claimed in claim 7, wherein the data processing unit (21) is connected to the collection module (27) and comprises a unit (23) recording the content of the selected packets and a programmable interface (22).

9. The method as claimed in any one of the preceding claims, also comprising a step of reading recorded contents of selected packets.

10. The method as claimed in claim 9, also comprising a selection step according to a filter for reading recorded contents of packets selected according to the collection filter.

11. The method as claimed in any one of the preceding claims, wherein said content of a selected packet is recorded with coordinates of said selected packet.

12. The method as claimed in claim 11, wherein the recorded coordinates of a selected packet comprise a timestamp of the collection of said selected packet.

13. The method as claimed in claim 11 or 12, wherein the recorded coordinates of a selected packet comprise an address of the router (2) which contains said internal port at which said second packet corresponding to said selected packet is transferred.

14. A system for monitoring the operation of a packet transmission communication network (1) comprising interconnected routers (2) each including a routing unit (2a) and a control unit (2b) supervising the routing unit, the routing unit being arranged for transferring first packets between external ports of said router and for transferring second packets between the external ports of the router and an internal port connected to the control unit, the system comprising:

- means of selecting packets corresponding to at least some of the second packets transferred at said internal port of a router (2) by means of a determined collection filter; and
- a unit for recording (23, 31) a content of the selected packets on a recording medium.

15. The system as claimed in claim 14, wherein the recording unit (31) is connected to the communication network (1) remotely from said router (2).

16. The system as claimed in claim 15, also comprising means of formatting said content of the selected packets.

17. The system as claimed in claim 15, wherein the formatting means comprise means of assigning to the content address - data corresponding to the recording unit (31).

18. The system as claimed in any one of claims 15 to 17, also comprising an encryption module for encrypting said content of the selected packets.

19. The system as claimed in any one of claims 14 to 18, wherein said router (2) incorporates a collection module (30) connected to said internal port for selecting the second packets and extracting the content to be recorded.

20. The system as claimed in claim 19, wherein the collection module (30) is arranged for receiving programming codes of the collection module via the communication network (1).

21. The system as claimed in any one of claims 14 to 18, also comprising a collection module (27) external to the routers (2) and connected to the communication network (1) for selecting packets corresponding to second packets transferred at said internal port of the router and extracting the content to be recorded, said collection module (27) comprising means for copying the content of each selected packet to a duplication packet sent to a recording unit (23, 31).

22. The system as claimed in any one of claims 14 to 21, also comprising means for reading on the recording medium the recorded content of selected packets.

23. The system as claimed in claim 22, also comprising means for selecting recorded contents of packets according to a read filter, when the contents of packets selected according to the collection filter are read on the recording medium.

24. The system as claimed in any one of claims 14 to 23, wherein a recording unit (23, 31) is arranged for recording said content of a selected packet with coordinates of said selected packet.

25. The system as claimed in claim 24, wherein the recorded coordinates of a selected packet comprise a timestamp of the collection of said selected packet.

26. The system as claimed in claim 24 or 25, wherein the recorded coordinates of a selected packet comprise an address of the router (2) which contains said internal port at which said second packet corresponding to said selected packet is transferred.

27. The system as claimed in any one of claims 14 to 26, also comprising a unit for simulating the operation of the communication network (1) by using the recorded contents of selected packets.

28. The system as claimed in any one of claims 14 to 26, also comprising a unit for constructing and/or updating, based on the recorded contents of selected packets, a table for determining paths intended to be respectively assigned to packets transferred by the routing unit (2a) of the router.

29. A router (2) for a packet transmission communication network (1), comprising a routing unit (2a) and a control unit (2b) supervising the routing unit, the routing unit being arranged for transferring first packets between external ports of the router and for transferring second packets between the external ports of the router and an internal port connected to the control unit, characterized in that it also comprises a collection module (30) connected to an interface between the routing unit (2a) and the control unit (2b) for selecting at least some of the second

packets and extracting a content to be recorded of the second packets selected in parallel with the transfer of first and second packets by the routing unit.